

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/003076

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 G02B 1/06 G02B 7/04 G03B 3/04**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G02B 1/00, 1/06, 3/00, 3/14, 7/00, 7/04; G03B 3/00, 3/04, 9/02, 11/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | JP 2001-249261 A (CANON INC.) 14 Sep. 2001 see abstract; paragraphs [0002], [0003], and [0008]-[0037]; Figure 7 | 1-23 |
| A | US 2001-0030364 A1 (KAZUAKI KATOU, KANAGAWA) 18 Oct. 2001 see abstract; paragraph [0062]; Figures 6, 10, and 12 | 1-23 |
| A | JP 2000-077736 A (DENSO CORP.) 14 Mar. 2000 see the whole document | 1-23 |
| A | JP 2001-257932 A (DENSO CORP.) 21 Sep. 2001 see the whole document | 1-23 |



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

07 MARCH 2005 (07.03.2005)

Date of mailing of the international search report

11 MARCH 2005 (11.03.2005)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/003076

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|---|--|
| JP 2001-249261 A | 14.09.2001 | US2002176148 A1 US06806988 A US20050007644 A1 | 28.11.2002 19.10.2004 13.01.2005 |
| US 2001-0030364 A1 | 18.10.2001 | KR1020010085577 A EP01128534 A2 EP01128534 A3 JP2001237374 A2 JP3372923 B2 TW529157 B US6531912 B | 07.09.2001 29.08.2001 24.09.2003 31.08.2001 04.02.2003 21.04.2003 11.03.2003 |
| JP 2000-077736 A | 14.03.2000 | NONE | |
| JP 2001-257932 A | 21.09.2001 | NONE | |